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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/965,387	09/27/2001	Jason E. Cosky	42390.P11979	2940
8791	7590 08/22/2003			Lar
12400 WILSHIRE BOULEVARD, SEVENTH FLOOR			EXAMINER	
			MCLEAN MAYO	, KIMBERLY N
			ART UNIT	PAPER NUMBER
			2187	1
ı		DATE MAILED: 08/22/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No. Signes Sar Cocky ET AL.			Annil adia a Na	100	0
Examiner Kimberly N. McLean-Mayo 2187 2-187		•	Application No.	Aplant(s)	S
Example Exam	Office Action Summary		09/965,387	COSKY ET AL.	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ③ MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Eatherisor for many be available under the provisions of 3 C/RF 1.18(6). In a event, however, may a risply be timely filled if the period for reply septicial above is less than lithing (30) stays, as reply with the statutory minimum of thinky (30) stays will be considered timely. If the period for reply septicial above is less than lithing (30) stays, as reply with the statutory information of thinky (30) stays will be considered from the period for reply supplied to the supplied for reply supplied for repl			Examiner	Art Unit	
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extractions of little may be available under the provisions of 37 CFR 1.35(a). In no avant, however, may a raply be timely filed Extractions of little may be available under the provisions of 37 CFR 1.35(a). In no avant, however, may a raply be timely filed Extractions of little may be available under the provisions of 37 CFR 1.35(a). In no avant, however, may a raply be timely filed If the parties of reply specified abover, the maximum statutory parties will apply and will apply add will apply 30 days will be considered timely. If the parties of reply specified abover, the maximum statutory specified will apply and will apply and will apply 30 days will be considered timely. If the parties of reply specified abover, the maximum statutory specified will apply and will apply and will apply and will apply 30 days will be considered timely. If the parties of the specified abover, the maximum statutory specified will apply and will apply and will apply 30 days will be considered timely. Apply and the parties of the specified abover, the maximum statutory specified or this communication, and the parties of the specified of this communication. Applicant this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Exparte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s)					
THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provides of 37 CPR 1.13(b). In or event, however, may a reply be timely filed after SIX (6) MCNTIST from the mailing date of this communication of the SIX (6) MCNTIST from the mailing date of this communication of the SIX (6) MCNTIST from the mailing date of the communication of the SIX (6) MCNTIST from the mailing date of the communication of the SIX (6) MCNTIST from the mailing date of the communication of the SIX (6) MCNTIST from the mailing date of the communication. Failures to reply visition the set or ordered pelectric provides and the set of the SIX (6) MCNTIST from the mailing date of the communication. Failures to reply visition the set of content of the SIX (6) MCNTIST from the mailing date of the SIX (7) MCNIST from the SIX (7) MCNIST fr		- ·	pears on the cover sheet with	the correspondence address	
2a) This action is FINAL. 2b This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-43 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) is/are allowed. 6) Claim(s) as/are rejected. 7) Claim(s) as/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on 10 June 2003 is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) J Copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 119(to a provisional application). a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 110 and/or 121. Attachment(s) The Translation of the foreign language provision	THE I - Exter after - If the - If NO - Failu - Any r eame	MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1: SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period vere to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing	36(a). In no event, however, may a reply y within the statutory minimum of thirty (3 will apply and will expire SIX (6) MONTHS, cause the application to become ABAN	be timely filed 0) days will be considered timely. 6 from the mailing date of this communication DONED (35 U.S.C. § 133).	n.
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14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 1) Interview Summary (PTO-413) Paper No(s) 5) Notice of Informal Patent Application (PTO-152)	* 5	3. Copies of the certified copies of the prior application from the International Bu	rity documents have been re reau (PCT Rule 17.2(a)).	ceived in this National Stage	
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2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) Notice of Informal Patent Application (PTO-152)	•	•			
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DETAILED ACTION

The enclosed detailed action is in response to the Amendment submitted on June 10,
 2003.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claim 1-41 are rejected under 35 U.S.C. 102(e) as being anticipated by Moyer (PGPUB: 2002/0199052 A1)

Regarding claims 1, 9-10, 20, 28-31 and 34-35, Moyer discloses initializing a circuit (Page 3, Section [0022], lines 22-32, lines 53-61 - the circuit is initialized by storing arbitration policies in control registers, References 56, 62, 63, 64 and 65 in Figure 4; Page 2, Section [0021], lines 30 +), wherein the circuit has at least one memory element coupled to a memory bus (Figure 1, Reference 12) on a host system (Figure 1, Reference 14 – host system)(the circuit is comprised of References 34, 36, 38, 40, 20, 22 and 24); monitoring signals on the memory bus (Page 2, Section [0021], lines 1-20 – the signals are monitored on the bus via input 12 in Figure 4); detecting [identifying] a first sequence of signals including a reserved memory address (the first sequence of signals comprises the address signals corresponding the memory request [section 0022, lines 8-15], the signals corresponding to Reference 53 in Figure 4 [section 0022, lines 41-

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42], the signals corresponding to Reference 56 in Figure 4 [section 0022, lines 41-42]) [the reserved memory address is any address corresponding to memory elements 20, 22 and 24 in Figure 1, the circuit monitors by receiving memory request to access the memory element and thus the circuit effectively monitors the memory addresses corresponding to the memory element] and switching control of the at least one memory element to the circuit in response to detection of the first sequence of signals (Page 3, Section [0022], lines 38-49). Additionally with respect to claim 20, hardware system elements are intrinsically controlled by software such as device drivers, microcode, etc. and thus it is evident that the system above comprises a machine-accessible medium including instructions, that when executed by the machine, causes the machine to perform the operations above.

Regarding claims 2-3 and 21-22, Moyer discloses detecting a second sequence of signals including another reserved memory address and switching control of the at least one memory element to the host system in response to detection of the second sequence of signals (Page 3, Section [0022], lines 38-49 — when the information monitored and retrieved from the control register(s) indicated that the host system should be granted access to the bus).

Regarding claims 4 and 23, Moyer discloses initializing a circuit having at least one memory element coupled to a memory bus on a host system comprising detecting a sequence of writes to memory locations on the circuit (Page 3, Section [0022], lines 22-32, lines 53-61; Page 2, Section [0021], lines 30 +; logic within Reference 34 for identifying when information is being written to the control registers, References 56, 62, 63, 64 and 65 in Figure 4).

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Regarding claims 5 and 24, Moyer discloses the sequence of writes as writes to random memory locations (locations of the configuration registers).

Regarding claims 6-8 and 25-27, Moyer discloses monitoring signals on the memory bus comprising the circuit monitoring control, address and data signals on the host system (Page 2, Section [0021], lines 7-20).

Regarding claims 11, 18-19 and 32-33, Moyer discloses a memory bus on a host system (Figure 1, Reference 12); a plurality of memory elements on a circuit, (the circuit is comprised References 34, 36, 38, 40, 20, 22 and 24), the plurality of memory elements communicatively coupled with the memory bus (the plurality of memory elements – Figure 1, References 20, 22 and 24); a processing element on the circuit communicatively coupled with the plurality of memory elements and the memory bus, the (Figure 1, Reference 34), the processing element to monitor signals on the memory bus (Page 2, Section [0021], lines 1-20 – the signals are monitored on the bus via input 12 in Figure 4); detecting [identifying] a first sequence of signals including a reserved memory address (the first sequence of signals comprises the address signals corresponding the memory request [section 0022, lines 8-15], the signals corresponding to Reference 56 in Figure 4 [section 0022, lines 41-42], the signals corresponding to Reference 56 in Figure 4 [section 0022, lines 41-42]) [the reserved memory address is any address corresponding to the system memory, the circuit monitors by receiving memory request to access the memory element and thus the circuit effectively monitors the memory addresses

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corresponding to the memory element] and switching control of the at least one memory element to the circuit in response to detection of the first sequence of signals (Page 3, Section [0022], lines 38-49).

Claims 12-13 are rejected for the same rationale applied to claims 2-3 above.

Claim 14 is rejected for the same rationale applied to claim 4 above.

Claim 15 is rejected for the same rationale applied to claim 5 above.

Claims 16-18 are rejected for the same rationale applied to claim 6-8 above.

Regarding claims 36-40, Moyer discloses monitoring signals on a memory bus (Figure 1, Reference 12), the memory bus coupled with a memory (any one of References 20, 22 and 24) and a first processor (Figure 1, Reference 14) (Page 2, Section [0021], lines 1-20 – the signals are monitored on the bus via input 12 in Figure 4); and in response to detecting [identifying] a reserved memory address (address corresponding to the memory request, wherein a memory request is a read or write request, [section 0022, lines 8-15]; the reserved memory address is any address corresponding to memory elements 20, 22 and 24 in Figure 1, the circuit monitors by receiving memory request to access the memory element and thus the circuit effectively monitors the memory addresses corresponding to the memory element), switching control of the memory from the first processor to a second processor coupled with the memory bus (a processor is a bus master; any one of References 36, 38 and 40 in Figure 1)(Page 3, Section [0022], lines 38-49 - when the information monitored and retrieved from the control register(s) indicates that the second processor should be granted access to the bus) and in response to detecting another

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reserved memory address on the memory bus, switching control of the memory from the second processor to the first processor (Page 3, Section [0022], lines 38-49 - when the information monitored and retrieved from the control register(s) indicates that the first processor should be granted access to the bus).

Regarding claim 41, Moyer discloses the memory and the second processor comprising part of a single component (the single component is Reference 10 in Figure 1, a data processing system).

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 42-43 are rejected under 35 U.S.C. 103(a) as being unpatentable over Moyer (PGPUB: 2002/0199052).

Moyer does not explicitly disclose the memory comprising a SDRAM and does not disclose the single component comprising a DIMM coupled with the memory bus. However, it is well known in the art to use SDRAM memories, which provide fast memory access via burst mode operations and dual bank structure. Additionally, it is well known in the art to use DIMMs in a system to provide increased memory storage capacity. Hence, it would have been obvious to one of ordinary skill in the art to provide theses features in the system taught by Moyer for the desirable purpose of increased storage capacity and fast memory access.

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Response to Arguments

6. Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kimberly N. McLean-Mayo whose telephone number is 703-308-9592. The examiner can normally be reached on M-F (9:00 - 6:30) First Friday Off.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Donald Sparks can be reached on 703-308-1756. The fax phone numbers for the organization where this application or proceeding is assigned are 703-746-7329 for regular communications and 703-746-7240 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-2100.

CIMBERLY MCLEAN-MAYO PRIMARY EXAMINER Kimberly N. McLean-Mayo

Examiner Art Unit 2187

KNM

August 20, 2003